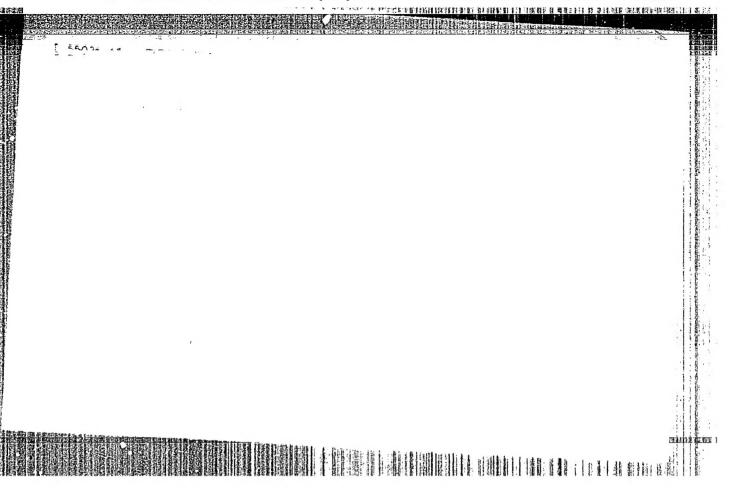
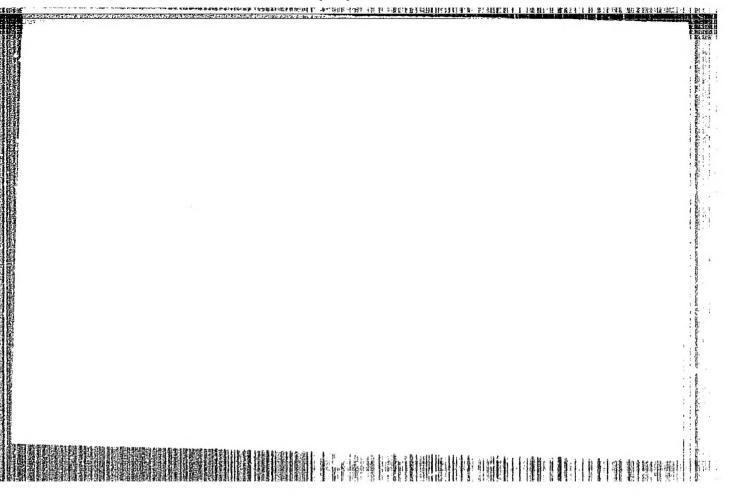
1(5)  **PASE I BOOK ITTIOITATION 507/1896  **Partial machines session postallogmicheskin i prognomys  **Raterial machines session setallogmicheskin i prognomys kartan;  **Cohilaty** (**Norials Presented at the Scientific Session on Retallaterials and Postalited Ore Geourence Maps Reports Alma-Ata-  Ind-ro An Kenthicky SAN, 1956, 118 p. Errate ally inserted.  3,650 copies printed.	M.: A.S. Pogother; Yeah. Ed.: P.P. Aiferore.  Sponsoring Agensies: (1) Akademiya neat 2537, (2) Akademiya neak Landchicky 537, Alma-Ata, (3) USSN. Kinistersivo grologii 1 okhrany sedr. (4) Akadah 537. Kinistersivo grologii 1 okhrany sedr. (4) Akadah 537. Kinistersivo grologii 1 okhrany sedr. (5) Masha 537. Kinistersivo grologii 1 okhrany sedr. (5) Masha 507. Kinistersivo grologii 1 okhrany sedr. (5) Masha 507. Kinistersivo grologii 1 okhrany sedr. (6) Masha 507. Kinistersivo grologii 1 okhrany sedr. (6) Masha 507. Kinistersivo grologii 1 okhrany sedr. (7) Masha 507. Kinistersivo grologii 1 okhrany sedr. (8)	Mearials Presented (Cont.)  Sofficial This sollection of reports was presented at the United Safestine Season on Metallogeney and Postulated (We Country-one Maps sourced by the Anademy of Salesces in Alas-Mar. Desember 1955. The reports deal with various aspects of empiling metallogenests and one occurrence maps as well as the methodology and reducing many and one occurrence maps as well as the methodology and reducing many and one of sorrelating goopstatal apploration data. These relating the conference metally the soliter reports and by Tolle Laharaway, M.S. Sharakdy, and Th.K. Gorstelly.	CONTINES:  2 Procented (Cont.)  12 0.B. [IOM AN Exists]. Frinciples of Compiling the lated Countremes Maps for Yan in Centra Laxadrastan  149  140. [Kar IOM And Last of Continue of Compiling	9	78 ( 77 ) ;	

SATPAYEV, K.I.; BORUKAYEV, R.A.; AKHMEDSAPIN, U.M.; BOK, I.I.; KUSHEV, G.L.; SERGIYEV, N.G.; SHLYGIN, Ye.D.; SHCHERRA, G.H.; MONICH, V.K.; LOMONOVICH, I.I.; LAVROV, V.V.; MEDOYEV, G.TS.; NOVOKHATSKIY, I.P.; BARBOT-DE-MARNI, A.V.; GALITSKIY, V.V.; KOLOTILIN, N.F.; ZHILINSKIY, G.B.; KAYUPOV, A.K.; KAZANLI, D.H.; SATPAYEVA, T.A.; ABDULKABIROVA, M.K.; GAZIZOVA, K.S.; VEYTS, B.I.; KHAYRUTDINOV, D.Kh.; MUKHAMEDZHANOV, S.M.; CHOLPAHKULOV, T.Gh.; PARSHIN, A.V.; TAZHIRAYEVA, P.T.; YANULOVA, M.K.; BYKOVA, M.S.; VOLKOV, A.N.; BOLGOV, G.N.; MITRYAYEVA, N.N.; CHOKABAYEV, S.Ye.; KUNAYEV, D.S.; YARENSKAYA, M.A.; REBROVA, T.I.

Tireless explorer of the depths of the earth's crust; on the 65th birthday and 40th anniversary of the scientific engineering activities of Academician M.P. Rusakov. Vest. AN Kazakh. SSR 13 no.12:96-97 D '57. (MIRA 11:1)



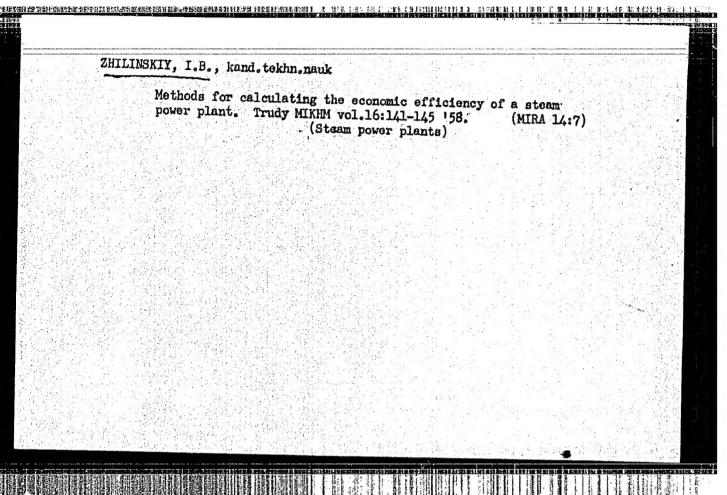


BAKHTYUKOV, V.M., inzh.; ZHILINSKIY, I.B., kand.tekhn.nauk, dotsent; SMIRNOV,
V.I., kand.tekhn.nauk

Effect of the velocity of the surrounding medium on the disintegration characteristics of cylindrical jets of liquid. Izv.vys.
ucheb.zav.; energ. 8 no.4:101-104 Ap 165.

1. Moskovskiy institut khimicheskogo mashinostroyeniya.

(MIRA 18:4)

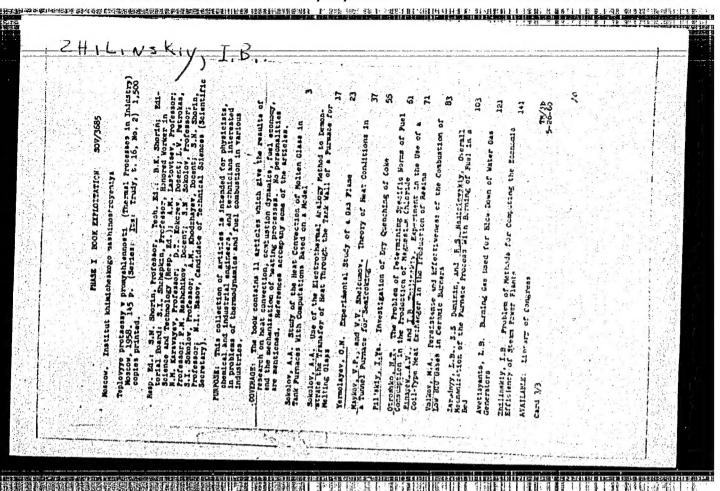


PINAYEV, A.V., kand.tekhn.nauk, dotsent; ZHILINSKIY, I.B., kand. tekhn.

Use of spiral coil refrigerators in the manufacture of resins.

Trudy MIKHM. vol.16:72-82 '58. (MIRA 14:7)

(Resins, Synthetic) (Refrigeration and refrigerating machinery)



SOV/124-58-10-11617

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 132 (USSR)

AUTHOR:

Zhilinskiy, K. A.

TITLE:

On Design Calculation of Groups of Low Piles (K raschetu nizkikh

svaynykh rostverkov)

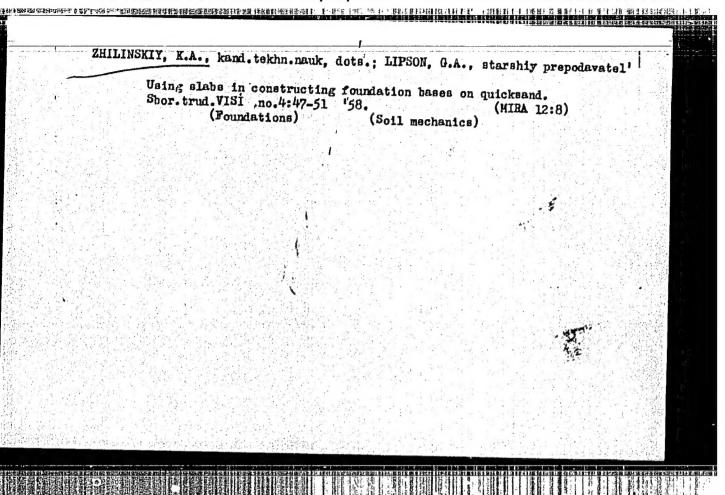
PERIODICAL: Sb. nauchn. tr. Voronezhsk. inzh. - stroit. in-t, 1957, Nr 5,

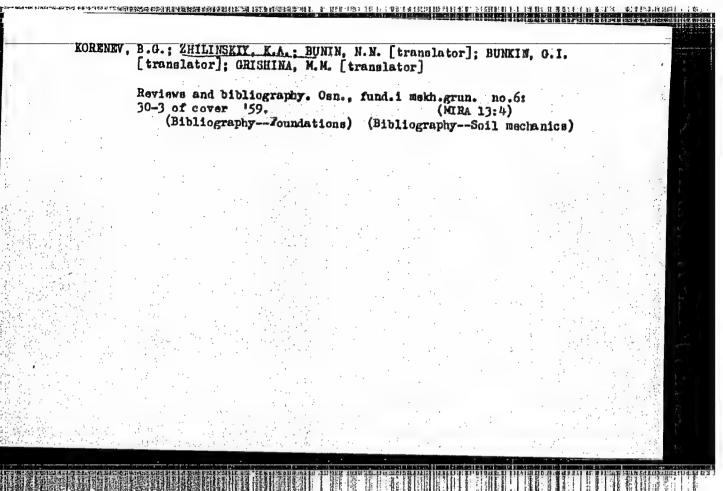
Nr. 1, pp 49-54

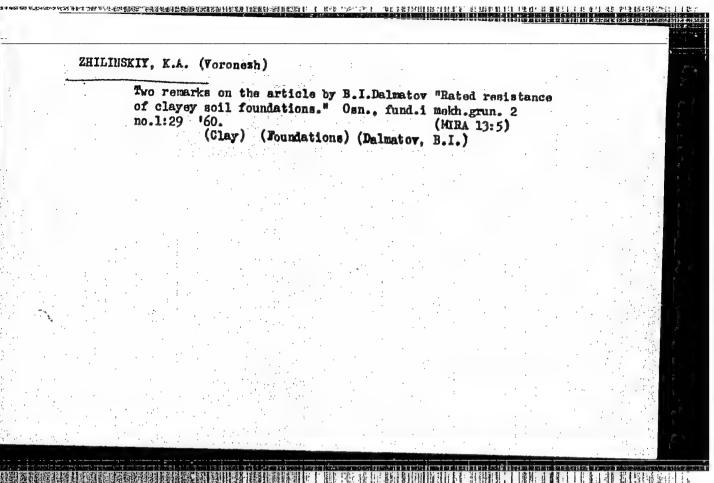
ABSTRACT:

Bibliographic entry

Card 1/1







ZHILINSKIY, K. A.

"Calculation of Rigid Rectangular Foundations." Cand Tech Sci, Mogcow Construction Engineering Inst, Moscow, 1953. Digsertation (Meferativnyy Zhurnal.--Mekhanika So: Sum 186, 19 Aug 1954)

BEREZANTSEY, V.G. (Leningrad); GOLUBKOV, V.M.; ZHILINSKIY, K.A., dotsent;
MAKAROCHKIN, M.F., prof; MEDKOV, Y.J., prof.; BAIUSEEV, B., prof.;
MYBLIVETS, A., professor doktor (Praga, Chekhoslovakiya)

"Foundations" by N.A. Tsytovich. Reviewed by V. G. Berezantsev and others. Ogn., fund. i mekh. grun. 3 no.1428-29 '61. (MIRA 14:3)

1. Zaveduyushchiy kafedroy osnovaniy i fundamentov Odesskogo inzhenenno-stroitel'nogo instituta (for Golubkov). 2. Voronezhskiy inzhenerno-stroitel'nyy institut (for Zhilinskiy). 3. Zaveduyushchiy kafedroy Belgrusskogo politekhnicheskogo instituta chlen-korrespondent Akademii stroitel'stra i arkhitektury SSR (for Makarochkin).

4. Zaveduyushchiy kafedroy Moskovskogo instituta inzhenerov shelezno-dorozhnogo transporta (for Medkov). 5. Ot litsa kafedry osnovaniy' i fundamentov Inzhenerno-stroitel'nogo instituta, Sofiya, Bolgariya (for Balushev). 6. Chlen-korrespondent Cheshskoy akademii nauk (for Myslivets).

(Foundations)

(Tsytovich, N.A.)

ACC NR. ANOO29203

Honograph

UR/

Zhilinskiy, Kazimir Yanovich

Insulation of the refrigerated areas of ships; modern methods of calculation (Teploizolyatsiya sudovykh refrizheratornykh pomeshcheniy; sovremennyye metody rascheta) Leningrad, Izd-vo "Sudostroyeniye," 1966, 102 p. diagr., biblio. 2,000 copies printed.

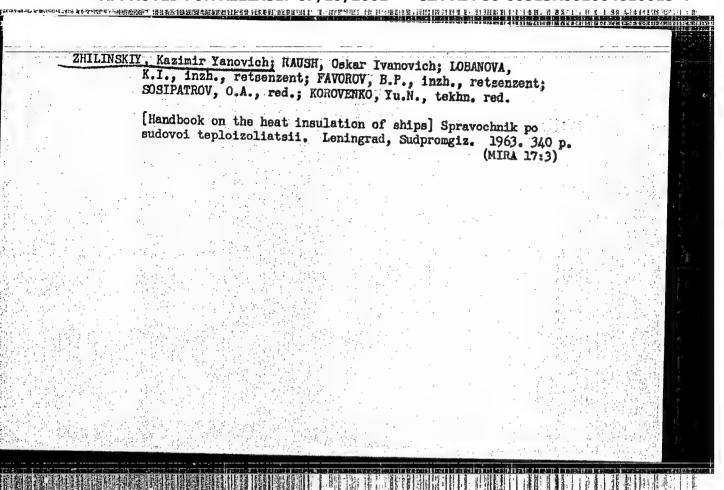
TOPIC TAGS: refrigerator ship, heat insulation, ship building engineering.

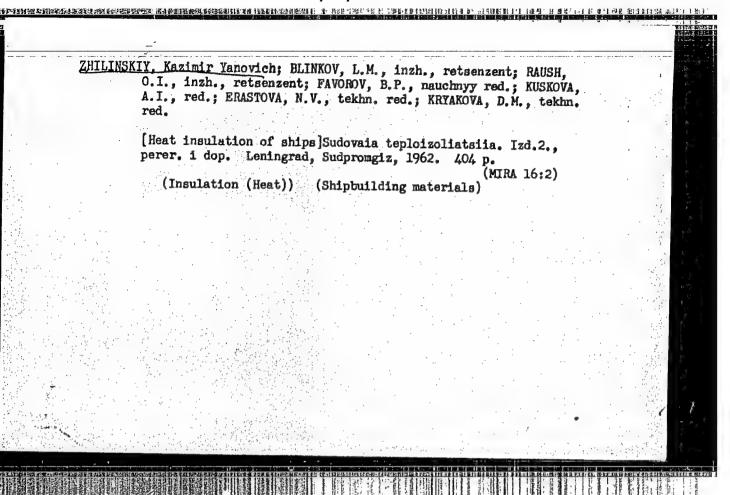
PURPOSE AND COVERAGE: This booklet is intended for engineering and technical workers in the shipbuilding industry working on the insulation of refrigerated holds of foreign—and Soviet-built ships. It is also useful for students of shipbuilding institutes specializing in the field of insulation. Modern methods of designing insulation for foreign—and Soviet-built refrigeration ships are presented. The basic features of each method and the final results of existing methods in order to increase the range of their application of which are Soviet.

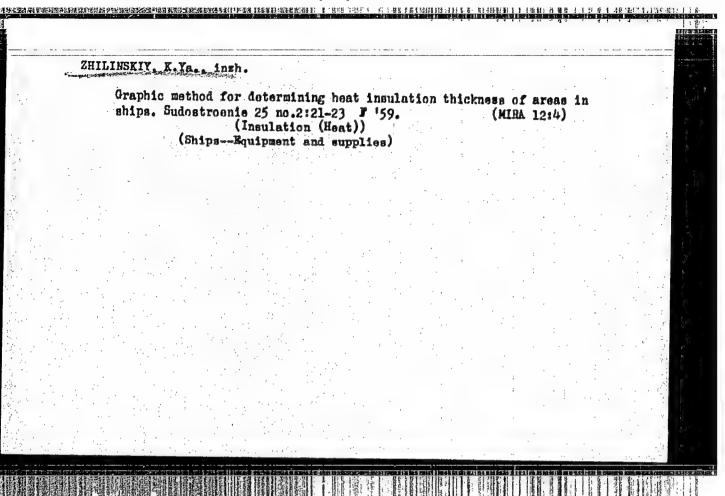
**Card** 1/2

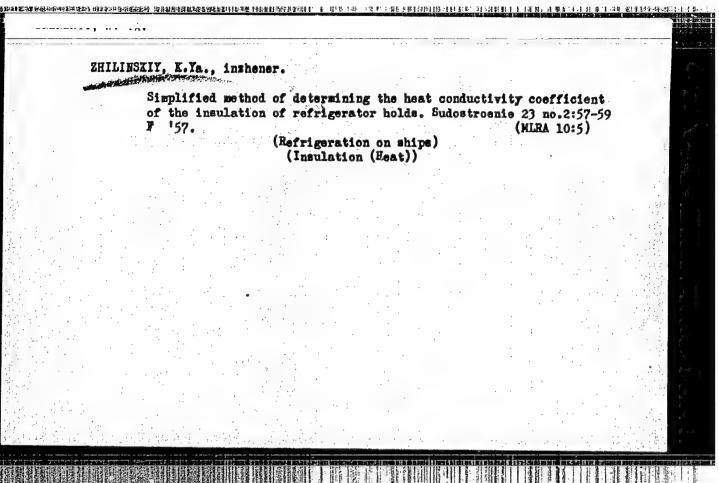
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ACC NR. AM6029203					
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ch. 2. Modifie	d methods for cal	culating heat	insulation	n 77	
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ZHILINSKIT, Kazimir Yanovich; RAUSH, O.I., ctv. red.; FOMICHEV, A.G., red.;

KOMMONOVICH, A.T., tekhn.red.

[Heat insulation of ship hulls] Teploizoliatsiia korpusa sudna.
Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1958,
230 p.

(Hulls (Naval architecture)) (Insulation (Heat))

ZHILINSKIY, I.B.
PHASE I BOOK EXPLOITATION SOV/3685

Moscow. Institut khimicheskogo mashinostroyeniya

Teplovyye protsessy v promyshlennosti (Thermal Processes in Industry)
Moscow, 1958. 145 p. (Series: Its: Trudy, t. 16, No. 2) 1,500
copies printed.

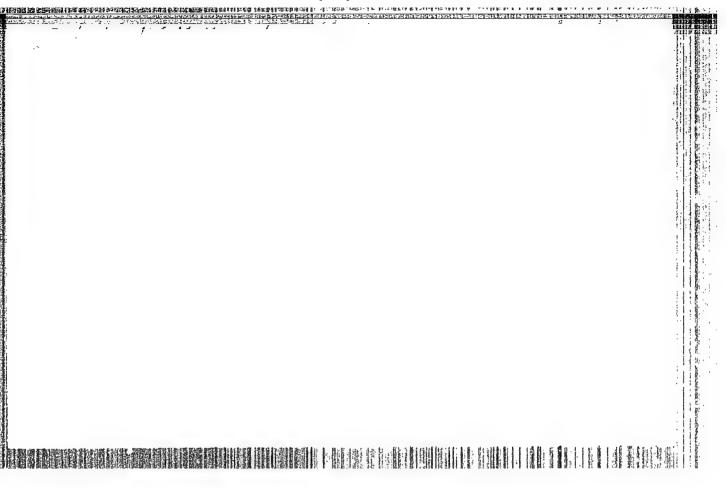
Resp. Ed.: S.N. Shorin, Professor; Tech. Ed.: B.K. Shorin; Editorial Board: S.I. Shchepkin, Professor, Honored Worker in Science and Technology (Resp. Ed.); A.M. Lastovtsev, Professor; N.M. Karavayev, Professor; D.T. Kokorev, Docent; L.V. Petrokas, Professor; P.M. Reshchikov, Docent; S.N. Sokolov, Professor; S.I. Sokolov, Professor; A.M. Khodzhayev, Docent; S.N. Shorin, Professor; N.I. Basov, Candidate of Technical Sciences (Scientific Secretary).

PURPOSE: This collection of articles is intended for physicists, chemical and industrial engineers, and technicians interested in problems of thermodynamics and fuel combustion in various industries.

COVERAGE: The book contains il articles which give the results of Card 1/3

THE S	部語教育的情報的表現教育的自然教育教育的技術研究的智能的教育的教育的教育的教育的教育、生物では、「ロースの中ではいればないます。」といれませれていかが、「ロース・アース・アース・アース・アース・アース・アース・アース・アース・アース・ア	त्र इस् <i>स</i> ाट	
,	Thermal Processes in Industry SOV/3685		
	research on heat convection, combustion dynamics, fuel economy, and the mechanization of heating processes. No personalities are mentioned. References accompany some of the articles.		
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	Otroshko, N.T. The Problem of Determining Specific Norms of Fuel Consumption in the Production of Magnesium Chloride Card 2/3	61	
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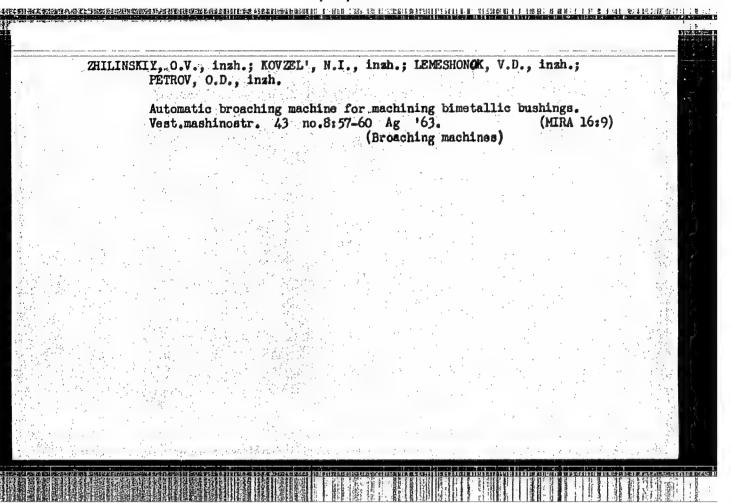
Thermal Processes in Industry	
1 100/1000	
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AVAILABLE: Library of Congress	141
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ZHILINSKIY, O.V.; KOZLOV, V.A.; MIKHAL\*KEVICH, I.V.; PETROV, O.D.

Hydraulic system of a broaching machine with two-position safety valves. Stan.i instr. 32 no.6:36-37 Je '61. (MIRA 14:6)

(Broaching machines—Hydraulic driving)



ZHILINSKIY, Petr Pavlovich; RASTOVA, G.V., vedushchiy red.; FEDOTOVA, I.G., tekhn. red.

[Pipe-laying machinery; operation and repair] Truboukladchiki; ekspluatatsiia i remont. Moakva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 129 p.

(Pipelines-Equipment and supplies)

(MIRA 14.7)

ZHILINKIY. Petr Paylovich: KRAYZHI, MAN, S.M., red.; POLYANSKIY, O.I.,
vedushchiy red.; TROFINOY, 2.V., tekhn.red.

[Mobile pipe-cleaning machines] Peredvizhnye trubocchistnye
mashiny. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gornotoplivnoi lit-ry, 1960. 82 p.

(Pipelines-Cleaning)

(MIRA 14:3)

# ZHILIBSKIY. 7. Variability of the submicroscopic structure and mechanical properties of polycaprolactam fibers. Isv.vys.ucheb.sav.; tekh.tekst.prom. np.1:17-31 '60. (MIRA 13:6) 1. Lodsinskiy politekhnicheskiy institut. (Textile fibers, Synthetic)

ZHILINSKIY, V.A., kandidat sel'skokhosyayatvennykh nauk.

Treatment of experimental data obtained from studying the absorption of water by soils. Isv. TSKhA no.2:131-140 '56. (MERA 9:12)

(Soil absorption)

USSR / Soil Science Tilling. Melioration. Erosion.

Abs Jour

: Ref Zhur - Biologiya, No 11, 1958, No. 48689

Author

That

: Zhilinskiy, V. A. : Timiryazev Institute of Agriculture

Title

: Processing of Experimental Data on the Observa-

tions of Subsoil Water Absorption

Orig Pub

: Izv. Timiryazevsk. s.-kh. akad., 1956. No 2.

131-140

Abstract

: This article examines a mathematical method of processing the primary finding in data analysis on the water absorption by the subsoil. The processing of these data is reduced to the derivation of the integral values of absorption expressed by the dimensions of the layer of the absorbed water, and to the derivation of the mean values of absorption called coefficients

Card 1/2

USSR / Soil Science Tilling. Melioration. Erosion. J Abs Jour : Ref Zhur - Biologiya, No 11, 1958, No. 48689

(or rates) of absorption and expressed by the ratio of the layer of the absorbed water to a unit of time. The article also critically examines the methods of computing the intensity of water absorption by the subsoil, developed by A. N. Kostyakov and A. A. Cherkasov. -- S. A. Nikitin

Card 2/2

56

USSR/Soil Science - Physical and Chemical Properties of Soil. Abs Jour Ref Zhur - Biol., No 15, 1958, 67895 Author Zhilinskiy, V.A. Inst Moscow Agricultural Academy imeni K.A. Timiryazev. Title Correctives to Formulae for Determining Coefficients of Absorption into Soil Foundations. Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1957, No Orig Pub 29, 368-376. Abstract The article contains the author's criticial evaluation and proposals on the absorption coefficients worked out by A.N. Kostynkov and A.A. Cherkasov. The following q coefficients of absorption in soils have been selected: 1) the integral absorption coefficient for the period clapsed since the beginning of absorption, 2) the average absorption coefficient for the same period, Card 1/2

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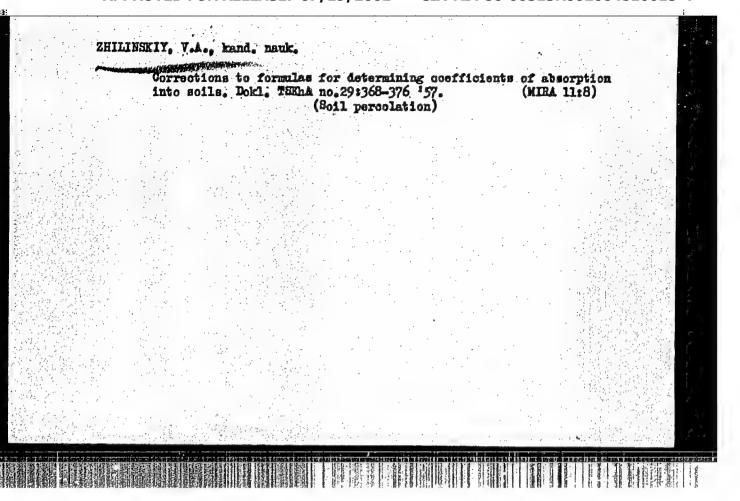
USSR/Soil Science - Physical and Chemical Properties of Soils.

Abs Jour : Ref Zhur - Biol., Nº 15, 1958, 67895

3) the instantaneous absorption coefficient for the moment corresponding to the end of the period which has clapsed since the beginning of the absorption. A formula is proposed for determining the average absorption coefficient for any time interval. -- P.V. Shranko

Card 2/2

- 16 -



BELYAEV, Viktor Vasil'yevich, kandidat tekhnicheskikh nauk; LEBENEV,
Boris Mikhaylovich, kandidat tekhnicheskikh nauk; STRUKOV, N.I.,
kandidat tekhnicheskikh nauk, retsenzent; ZHILINSKIV, V.A.,
kandidat tekhnicheskikh nauk, redaktor; YEGORKINA, L.I., redaktor
izdatel'stva; UVAROVA, A.F., tekhnicheskiy redaktor

[Sprinkling machines; construction, calculation, operation and testing] Dozhdeval'nye mashiny; konstruktsii, raschet, ekspluatatsiia i ispytaniia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 231 p. (MLRA 10:5)

(Sprinkler irrigation)

ZHILINSKIY, V.A., kandidat sel'skokhozyaystvennykh nauk.

Determining filtration losses of water from canals. (MIRA 10:7)

(Irrigation canals and flumes)

SOV/124-58-7-7792

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 70 (USSR)

AUTHOR: Zhilingkiy VinAminin

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TITLE: On the Determination of the Water Losses Due to Seepage in

Periodically Operating Irrigation Canals (K voprosu ob opredelenii poter' vody na fil'tratsiyu iz orositel'nykh kanalov

periodicheskogo deystviya)

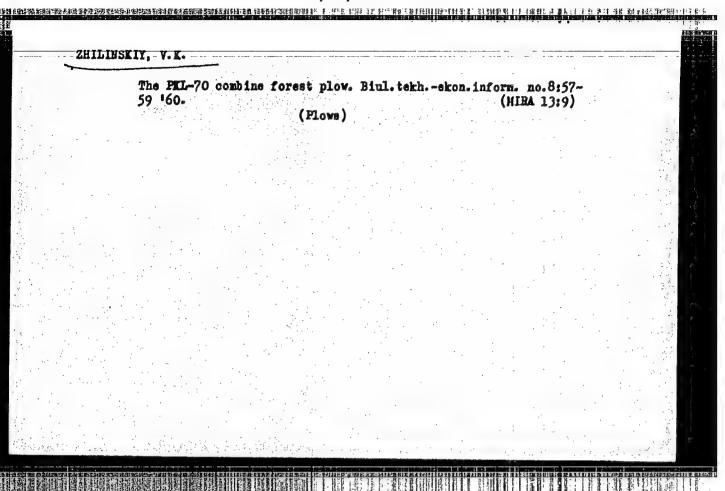
PERIODICAL: Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva, 1957, Nr

31, pp 367-372

ABSTRACT: Bibliographic entry

1. Irrigation systems--Performance 2. Water--Penetration

Card 1/1



# EHILINSKIY, Ye.S.; MIDEL'SETTY,S.I. Use of penicillin and oil aerosols in treating otolaryngological disease. Yest. oto-rin. 17 no.5;62-64 S-0 '55. (MIRA 9:2) 1. Is oto-laringologicheskogo otdeleniya polikliniki imeni F.R. Daershinskogo. (OTGRINGIARWGOLOGY, otorhinolaryngol. dis., ther., penicilin in oil, aerosol admin.) (PHICILLIN, administration, aerosol, in otorhinolaryngol. dis., in oil) (AEROSOLS, therapsutic use, penicillin in oil in otorhinolaryngol. dis.)

EYDEL'SHTEYN, S.I.; ZHILINSKIY, Ye.S.; GOL'TSER, S.M.

Warm moist antibiotic aerosols. Zhur.ush., nos. i gorl. bol. 23. no.3:62-66 My-Je'63. (MIRA 16:7)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov, polikliniki imeni F.E. Dzerzhinskogo i TSentral'noy polikliniki Ministerstva zdravookhraneniya RSFSR. (ANTIBIOTICS) (AEROSOL THERAPY)

Use of aerosols of antibiotics from the tetracycline series in catarrhal and suppurative diseases of the upper respiratory tract. Antibiotiki 7 no.1:68-71 Ja '62. (MLNA 15:2)

1. Poliklinika imeni F.E. Dzerzhinskogo (glavnyy vrach 1.G.Karakozov), TSentral'naya poliklinika Ministerstva zdravookhraneniya RSFSR (glavnyy vrach N.I., Yermolov). (TETRACYCLINE) (AEROSOL THERAPY) (RESPIRATORY ORGANS\_DE EASES)

MATELLI, ACC NR: AP6005050 SOURCE CODE: UR/0297/65/010/010/ AUTHORS: I. J Agronik, S. Kh.; Zhilinskiy, Ye. S ORG: Department for Ear, Throat, and Nose Illness/headed by N. V. Gospodinov/, Polyclinic im. F. E. Dzerzhinskiy, Moscow (Otdeleniye bolezney ukha, gorla, nosa polikliniki) TITLE: Erythromycin aerosol SOURCE: Antibiotiki, v. 10, no. 10, 1965, 945-948 TOPIC TAGS: medical research, erythromycin, aerosol ABSTRACT: Erythromycin has been put into aerosol form for the treatment of diseases caused by staphylococci, particularly upper respiratory diseases. Five hundred patients were examined for the presence of microflora in the upper respiratory tract, and sensitivity of staphylococci to erythromycin was established in 373 cases. Erythromycin aerosol was prepared by dissolving 0.1--0.2 grams (100 000--200 000 units) of powdered erythromycin in 1 ml of 1% spirit solution of citral; this solution was added to 100 ml of 20% glucose heated to 500. The solution was inhaled at 38-42° for 10--15 minutes daily. Erythromycin ascorbinate (ascorbic salts of erythromycin, an original water-soluble preparation of erythromycin obtained at VNIIA Card 1/2 VDC: 615.779.931-014.071

L 371111-66 ACC NR: AP6005050 was adapted for aerosol use. Of the cases treated, cures were observed in 90% of patients with acute catarrh, 81% of patients with chronic pharyngolaryngotracheitis, 90% of patients with chronic hypertrophic rhinitis, and 86% of patients with chronic catarrhal sinusitis. Microbiological data also support the effectiveness of erythromycin aerosols. The following side effects were reported in some cases: bitter taste, feeling of burning in chest, dryness in throat, and dry cough, which can be reduced or forestalled by addition of an antihistamine mixture. Sensitivity of microflora to antiobiotic should determine the use of erythromycin aerosols. Orig. art. has: 2 tables. SUB CODE: 06/ SUBM DATE: 20Mar64/ ORIG REF: 005/ OTH REF: 009 Cord 2/2 . af

# EYDEL SHTEYN, S.I., kand, med. nauk; ZHILINSKIY, Ye.S. Susceptibility to antibiotics of the microflora of the upper

respiratory tract in otorhinolaryngological patients. Zhur. ush., nos. 1 gorl.bol. 22 no.1:80-81 Ja-F '62. (MIRA 15:5)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov i iz polikliniki imeni Dzerzhinskogo.

(RESPIRATORY ORGANS--MICROBIOLOGY) (BACTERIA-EFFECT OF DRUGS ON)

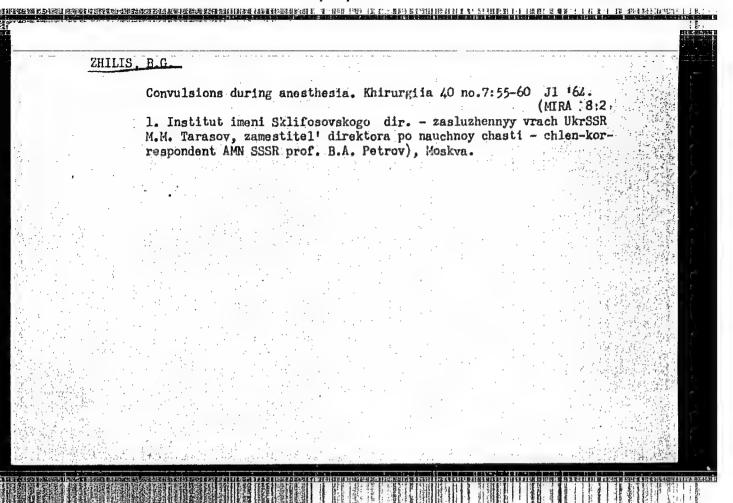
(ANTIBIOTICS)

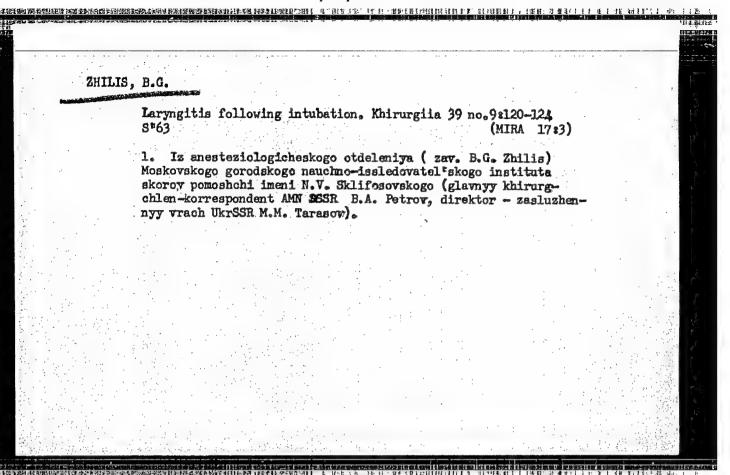
APPROVED FOR RELEASE: 07/19/2001

ZHILIRSKIY, Yu.M., starshiy propodayatel\*

Calculating permanent radiation units for greenhouses. Izv.
TERMA no.5:161-172 \*62. (MIRA 16:7)

(Greenhouses—Lighting)





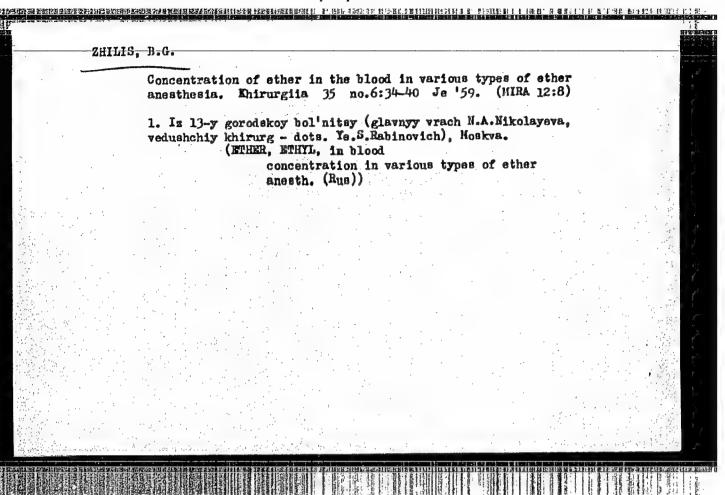
ZHILIS, B. G.

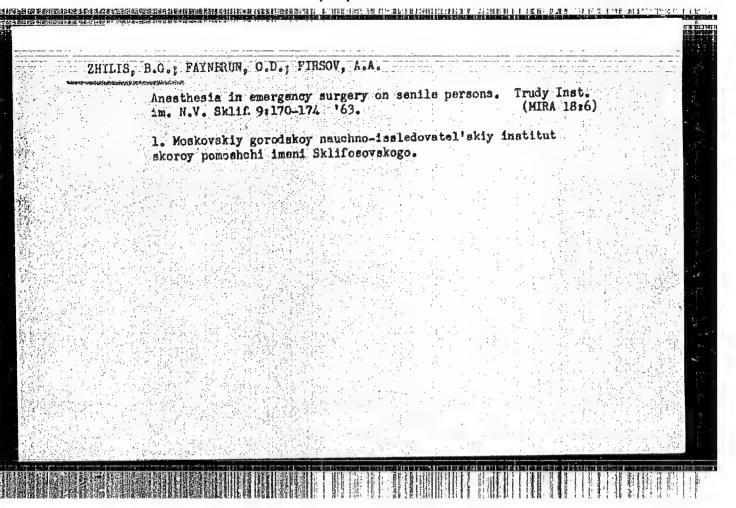
Combined nitrous oxide anesthesia. Khirurgiia no.4:49-53 '62.

(MIRA 15:6)

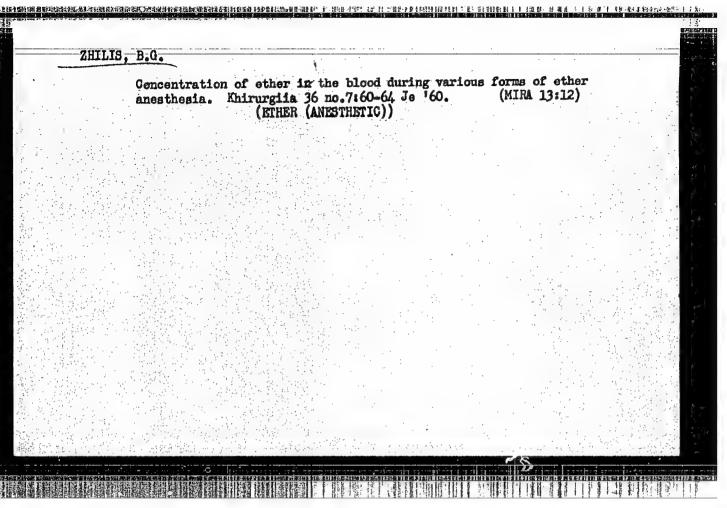
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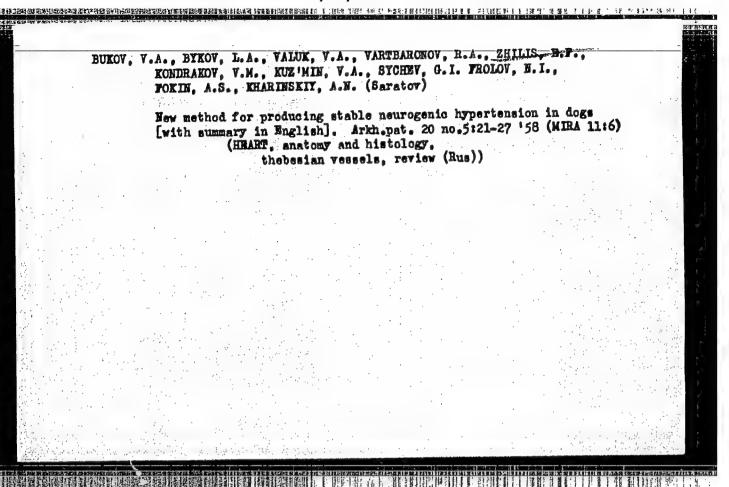
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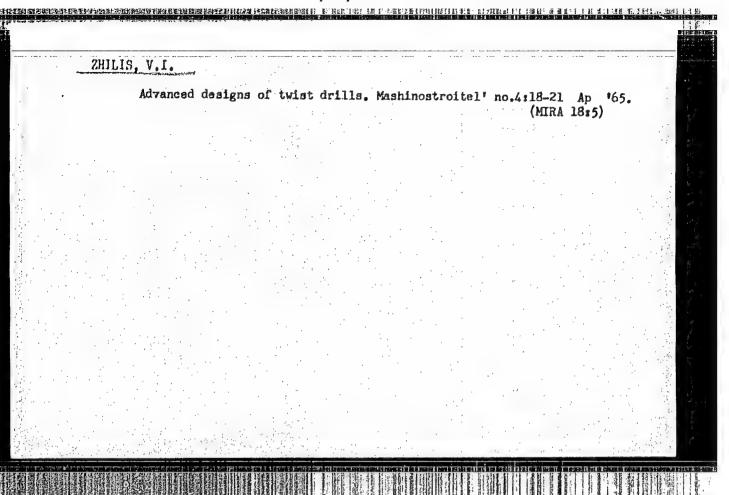


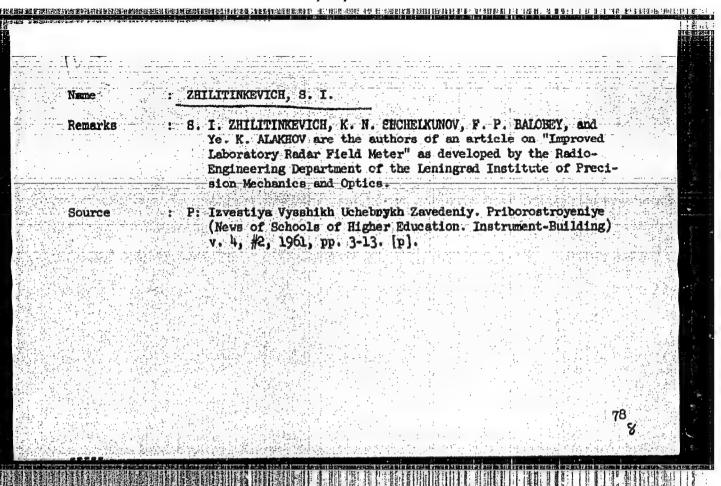


Anesthesia in surgery on craniocerebral traumas. Trudy Inst. im. N.V. Sklif. 9:222-225 163. (MIRA 18:6)
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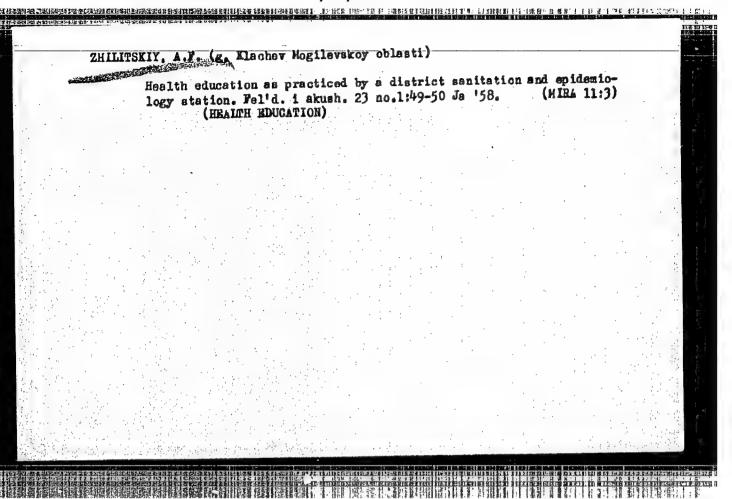


ZHILITSKAYA, C.A., kandidat meditsinskikh nauk.

Use of Sol-Iletak mud in inflammatory diseases of the female genitalia outside of the spa. Akush.; gin. no.2:78-79 Mr.Ap "54. (MIRA 7:6)

1. Iz akushersko-ginekologicheskoy kliniki (saveduyushchiy - professor Ya.H.Polonskiy) Chkalovskogo meditsinskogo instituta.

(Genitourinary organs-Diseases) (Sol-Iletak--Earths, Medical and surgical uses of)



ZHILITJKIY, Zk. Z.											
Agricultural Kachinery											
Mechanizing soil cultivation in orchards.	Sad 1 og., No. 8, 1952										
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ZHILITSKIY, Ya. Z.

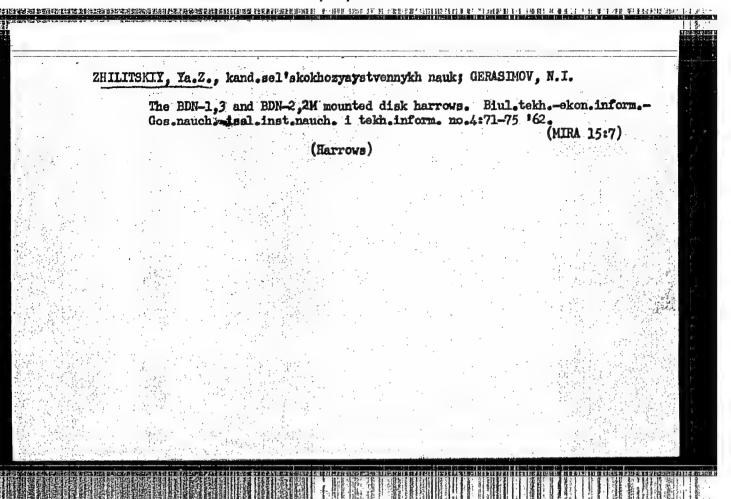
"Development of the Root System of Appletrees in Connection With
the Working of the Soil in Orchards." Cand Agr Sci, Sci Res Inst of
Fruit Growing, Michurinsk, 1953. (RZhBiol, No 1, Sep 54)

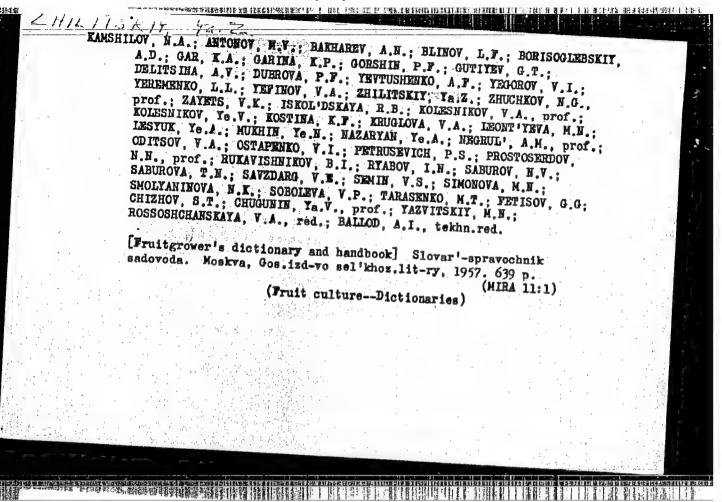
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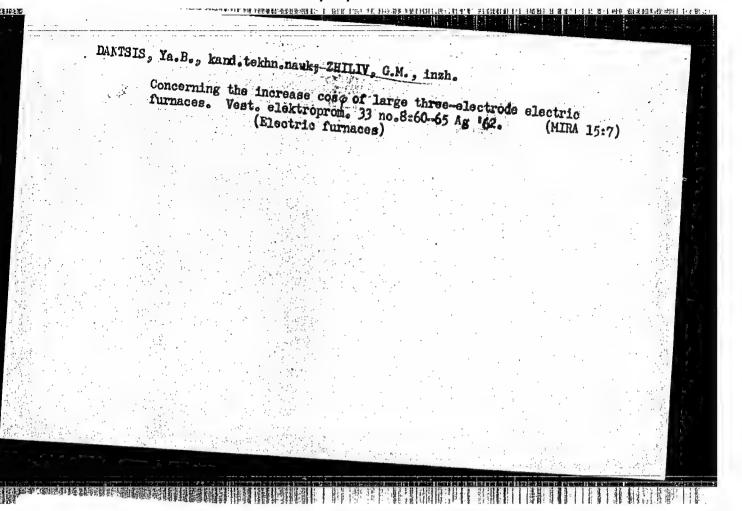
MOISEYEV, Mikoley Fedorovich; KUZNETSOV, Mikhail Mikhaylovich; ZHILITSIV, Ya.Z., retsenzent; TOPIL'SKIY, F.A., inshener, redektor; YHOORKINA, L.I., redektor izdatel stva; UVAROVA, A.F., tekhnicheskiy redektor

[Machines and apparatus for the mechanization of work in orchards and vineyards] Mashiny i orudiis dlia mekhanizatsii rabot v sadakh i vinogradnikakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 352 p. (MIRA 10:9)

(Agricultural machinery)







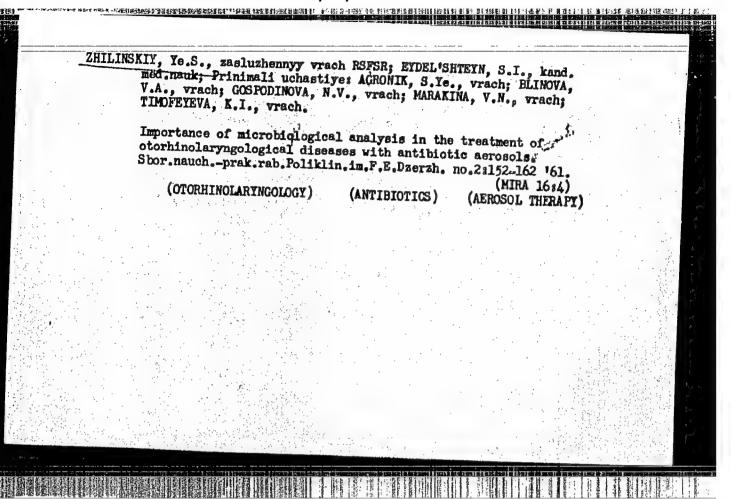
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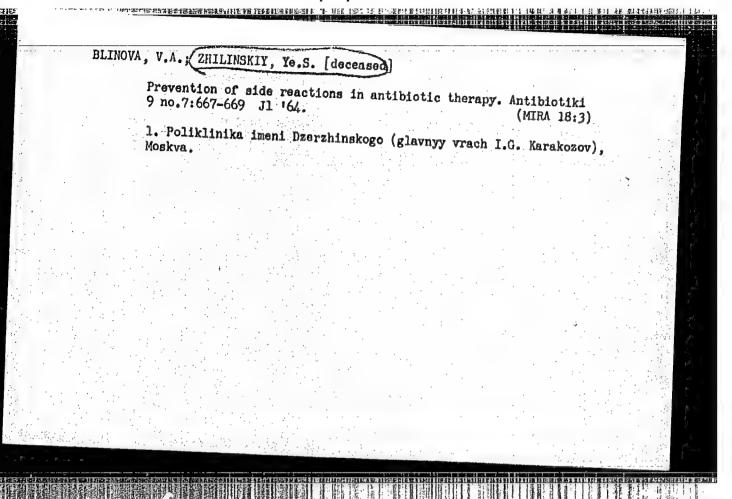
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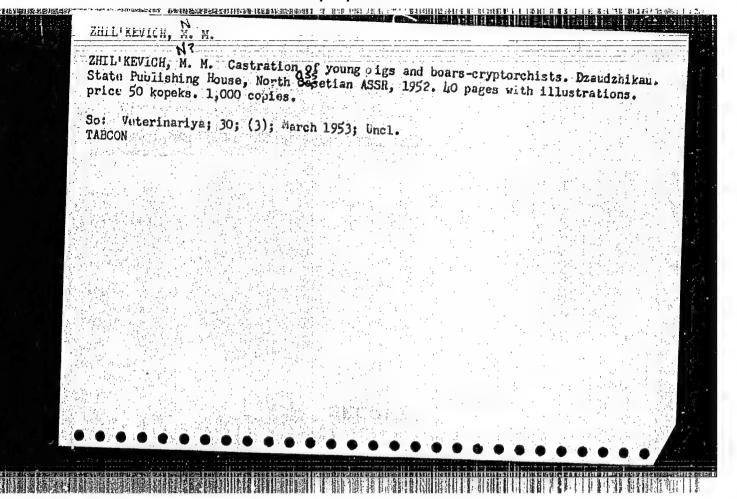
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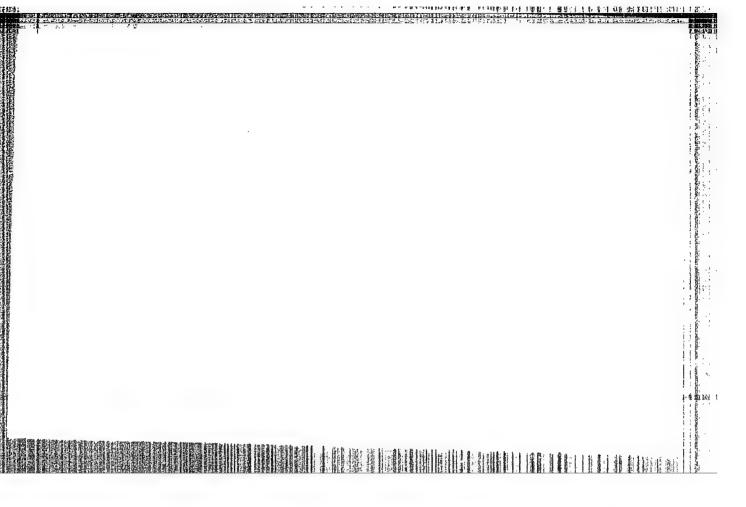
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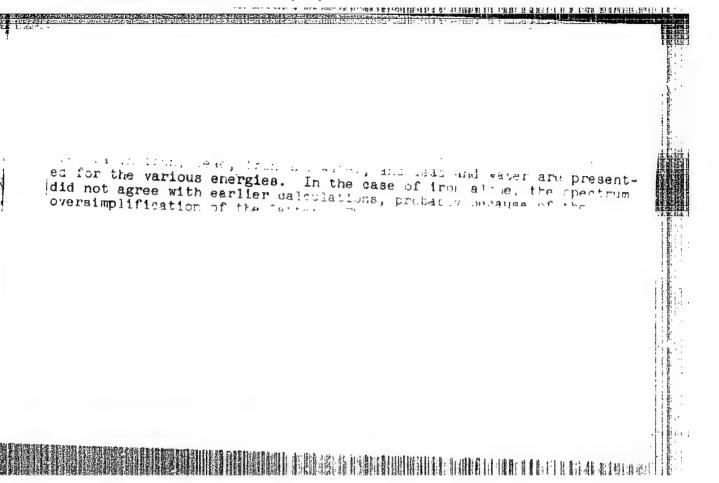
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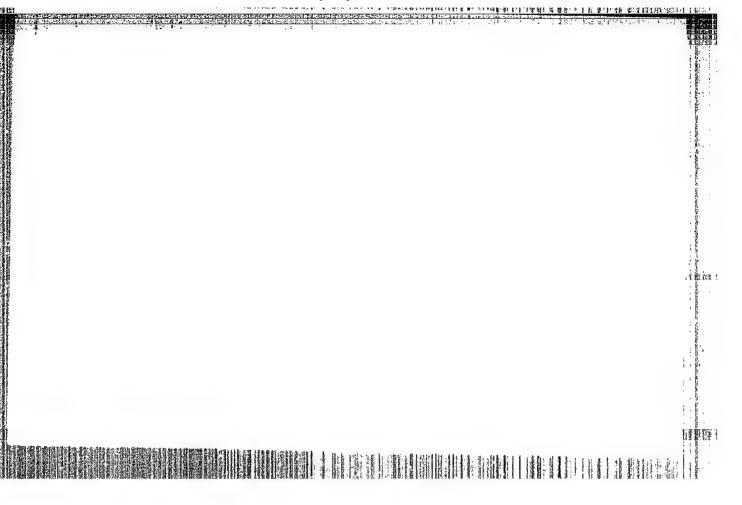


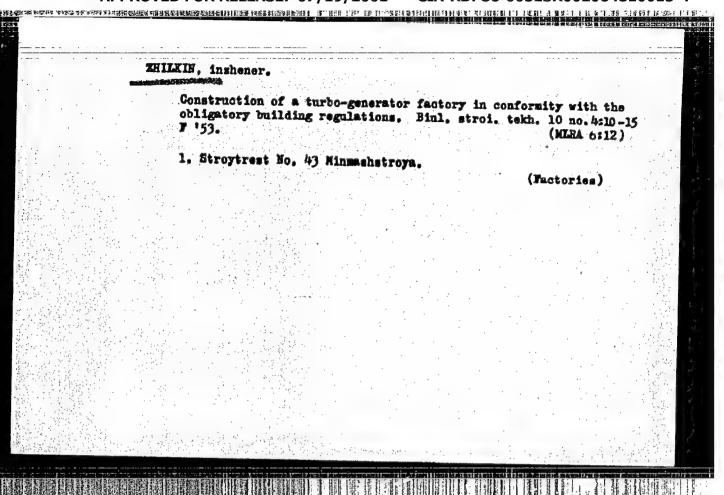




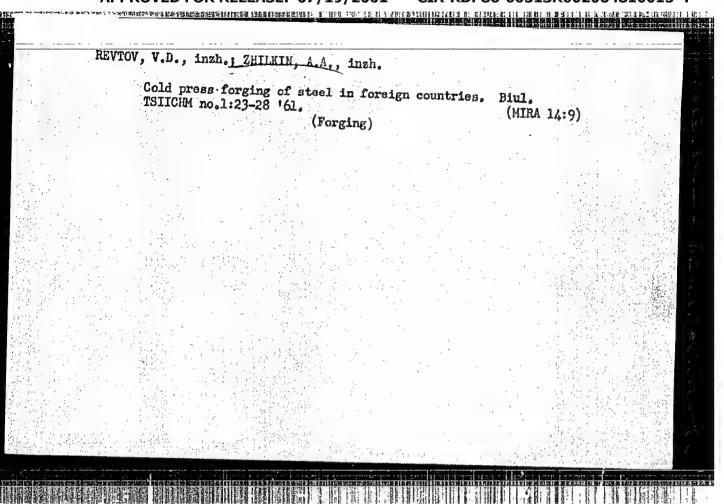


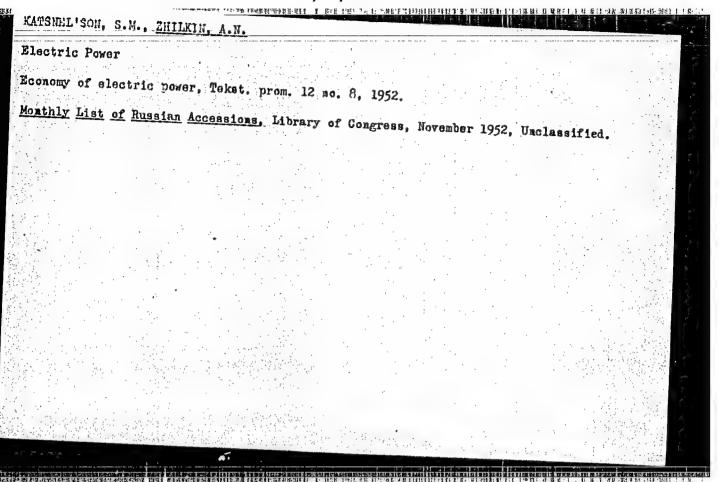






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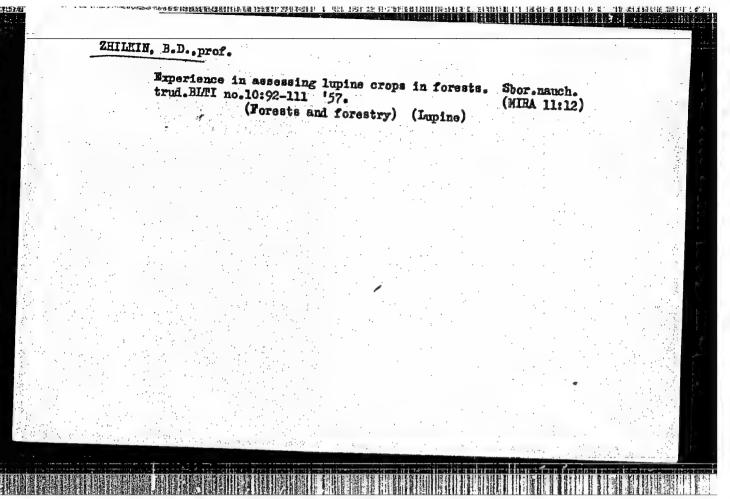


KATSNEL'SON, S. M., ZHILKIN, A. N.

Electric Power

Economy of electric power. Tekst. prom. 12 no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified



USSR / Forestry. Forest Management.

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72803.

Author : Zhilkin, B. D.
Inst : Belorussian Forestry Institute.

: Experiment of Evaluation of Lupine-Wood Farms.

Orig Pub: Sb. nauchn. tr. Belorussk. lesotekhn. in-t, 1957,

Abstract: On the basis of various literature and given Soviet and several foreign investigations, the value of lupine is reviewed for the enrichment of soil with humus and N. The experiment is cited of farms with lupine and wood in dry pine forests and in humid pine-forests on light soils of the Braslav and Negorel! Training-Experimental Leskhozes (BSSR). It is indicated that the seeds of perennial lupine significantly improve the growth of pine and fir

Card 1/3.

19

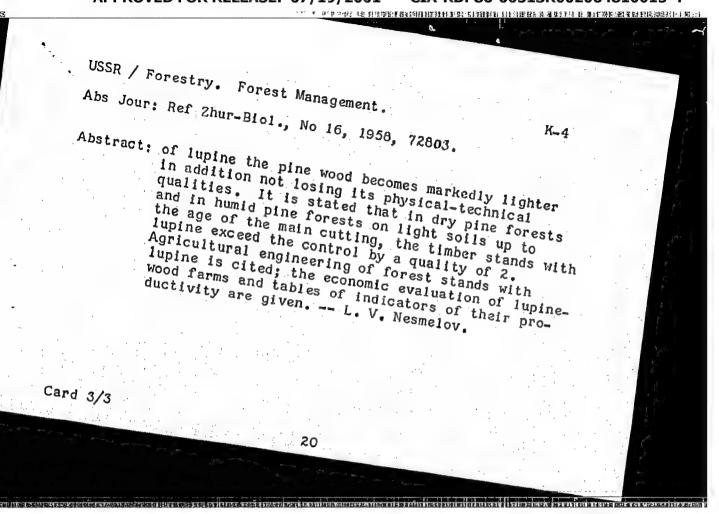
. USSR / Forestry. Forest Management.

K-4

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72803.

Abstract: both on poor and on the richest soils. Accompanying cultivation of lupine for the first 7 years retards the growth of fir in height, but from the 8-12th year of age, the fir makes a rapid change in growth as regards height and subsequently maintains it stably. By weight analysis, it was established that the harvest of organic mass of pine in the humid pine forests on light sands with single-row planting of lupine was exceeded by 35% against the control, and with double row - by 14%; in the dry pine forest it was correspondingly 11 and 38%. The content of total N in the root level was 50% higher with cultivation of lupine than on the control. The content of chlorophyll in the pine needles on plots with lupine exceeded its content on the controls by 84%. Under the influence

Card 2/3



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	L 05011-67 EWT(m)/EWP(t)/ETI JJP(c) JD/WW/JG/JR/GD  ACC NR: AT6027925 SOURCE CODE: UR/0000/66/000/000/0104/0116 4/7  AUTHOR: Broder, D. L.; Zhilkin, A. S.; Zolotukhin, V. G.; Tarasko, M. Z.; Kutuzov,	
-	ORG: None	3
	SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding); sbornik statey, no. 2. Moscow, Atomizdat, 1966, 104-116	
	TOPIC TAGS: fast neutron, radiation shielding, neutron spectrum	
	from sources with energies of 3.35 and 14.9 mev in water and in water behind layout the iron and lead. A scintillation spectrometer with a stilbene crystal was used for the measurements. The sensitivity to $\gamma$ -quanta was reduced by time division of irradiation. The reactions used for the neutron sources were $D(d,n)He^3$ and $T(d,n)He^4$ produced by the reactions used for the neutron sources were $D(d,n)He^3$ and $D(d,n)He^4$ produced by the reactions used for the neutron sources were $D(d,n)He^3$ and $D(d,n)He^4$ produced by	
	thickness of 18 mg/cm <sup>2</sup> . For the measurements in water, the source was located in a paraffin block placed in direct contact to the water tank. The overall dimensions of the shielding were 710×710×600 mm. The scintillation spectrometer was combined with an FEU-13 photomultiplier and an AI-100-1 amplitude analyzer. The results show that	
	Cord 1/2	

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ACC NR: AT6027925

the neutron spectrum from a monochromatic source in lead and iron differs considerably from that in water. The irox and lead spectrum shows a stronger concentration of low-energy neutrons (<2 Mev). In the energy range from 2 Mev to the initial energy of the 3.35 Mev source and from 4-5 Mev to the initial energy of the 14.9 Mev source, the spectrum in water contains more neutrons than that in iron and lead. This form of spectrum explains the excellent shielding properties of iron and lead for fast neutrons as well as their poor characteristics for comparatively low-energy neutrons. These out the entire energy spectrum. Spectra for neutrons in the energy region below the initial energy in water behind layers of lead and iron approach the shape of spectra in low 2-3 Mev, the spectrum shows high concentrations of neutrons in comparison with the spectrum in water. In this transition region there is also a considerable difference or leads are 10 figures, 1 table, 2 formulas.

SUB CODE:20,18/ SUBM DATE: 12Jan66/ ORIG REF: 004/ OTH REF: 004

Card 2/2 plas

L 05046-67 EWI(m)/EWP(t)/EII IJP(c) JD/JR/QD ACC NR: AT6027924 SOURCE CODE: UR/0000/66/000/000/0088/0103 AUTHOR: Broder, D. L.; Zhilkin, A. S.; Kutuzov, A. A.; Suvorov, A. P. ORG: None TITLE: Spectra of fast neutrons in heavy homogeneous media SOURCE: Voprosy fiziki zashchity reaktorov (Problems in physics of reactor shielding); sbornik statey, no. 2. Moscow, Atomizdat, 1966, 88-103 TOPIC TAGS: fast neutron, neutron energy distribution, radiation shielding, neutron scattering ABSTRACT: The spectra of fast neutrons in iron and lead are measured directly and the asymptotic spectra are calculated in the  $P_4$ -th approximation of the method of spherical harmonics using recent measurements for the excitation functions on individual levels in iron and lead. Approximate account is taken of neutron moderation in elastic scattering, and anisotropy due to direct interaction in inelastic scattering. Experimental measurements of the spatial energy distributions of neutrons were done on iron and lead specimens measuring  $710\times710\times600$  mm. Two reactions were used as neutron sources: T(d,n)He<sup>4</sup> (14.9 mev) and D(d,n)He<sup>3</sup> (3.35 mev). Since the deuterium target had a thickness of 20 mg/cm2, the resultant neutron spectrum in the latter case is not monochromatic. This fact was taken into consideration in the calculations. The neutron spectro-Card 1/2

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AUTHOR:

Zhilkin, B.D.

TITIE:

Examination of an Electro Inductive Flowmeter Suitable

for Rapidly Pulsating Flows (Issledovaniye

elektroinduktsionnogo raskhodomera dlya izmereniya

bystroperemennogo raskhoda źhidkosti)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Aviatsionnaya

Tekhnika, 1958, Nr 3, pp 68-77 (USSR)

ABSTRACT:

There are many problems of great importance in which the flow of fluid is highly unsteady and fluctuates rapidly, e.g. in combustion chambers, when investigating the actual process of mixing of constituents or

the actual process of mixing of constituents or spreading of flame, etc., as well as in the case of in investigation of engines over their unstable range of behaviour. In all these cases it is very important to be able to measure the flow of fluids in question and to

obtain full information about the mean velocity, fluctuating component of velocity as well as its

frequency of fluctuation etc.. There are several types of flowmeters suitable in many cases and these are dealt with in published literature (Ref.1, 2, and 3). When the

9 circular frequency of pulsation exceeds magnitudes

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Examination of an Electro Inductive Flowmeter Suitable for Rapidly Pulsating Flows

of 50 - 60 they begin to be less reliable. Out of many types noted by Grey and Lin (Ref.4), according to the author of this paper, the most suitable is the electroinductive flowmeter operating in a constant magnetic field and this is for the following reasons: 1) linear characteristic of frequencies in the range from zero to several kilohertz; 2) linear relation between the magnitude of the flow and the electromotive force on the electrodes of the pick-up; 3) absence of any adverse potentials which exist in electroconducting liquids and the secondary circuit of the pick-up with the alternating magnetic excitation; 4) absence of any elements in the design of the flowmeter which could introduce distortions in the flow of the fluid; 5) independence of the indications of the apparatus from the viscosity, pressure and density of the medium. The existing (i.e. described in Ref.5, 6 and 7) flowmeters give in effect good results for medium range of frequencies (500 c/s). In order to be able to investigate higher frequencies it appears rational to

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SOV/147-58-3-9/18

Examination of an Electro Inductive Flowmeter Suitable for Rapidly Pulsating Flows

replace the variable magnetic excitation to a constant one and, in addition, for the purpose of measuring both the mean and the fluctuating component of the flow, it was necessary to develop a special design of a transducer with electrodes which would preserve their electrical properties in the presence of a moving fluid and which would not get polarized when transmitting flux through the electro-chemical circuit of the transducer. The analysis of such a transducer is the object of this paper. In the first part of it the author discusses the relationship between the electromotive force of induction and the mass flow of fluids in the case of a flowmeter of rectangular cross-section, giving also some experimental results and, in the second part, the electro-chemical processes on the electrodes of the pick-up used in the flowmeter are discussed. Fig.1 shows diagrammatically the set-up of the arrangement of the electro-conducting fluid passing at right angle through the magnetic field  $\bar{B}$  with a speed  $\bar{w}$ . The electric

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Examination of an Electro Inductive Flowmeter Suitable for Rapidly Pulsating Flows

field  $\overline{E}$ , produced as a result of interaction of the moving fluid and the magnetic field, evokes an inductive e.m.f. in the fluid, &IND, which is detected by the electrodes of the pick-up and amplified. Assuming that the magnetic field is homogeneous, the walls of the duct electrically non-conductive and the flow inside the duct one-dimensional, then for a thin layer (along Y-axis) of the fluid the laminar profile of velocity is Eq.1, where W'cp - is the mean velocity in the layer. Next, by analogy with a unipolar machine, with \$\phi\$ being the magnetic flux, Eq.2 follows, which on integration from 0 to be gives Eq.3. Since the velocity profile in X-direction is similar to that in Y-direction, there will also be a similar expression for &IND for a layer parallel to X-axis. Therefore, to find the true magnitude of the potential on the electrodes (taking into account non-uniformity of the velocity distribution in the fluid) we have Maxwell's equation, Eq.4, which for  $\overline{B}$  = const. reduces to Eq.5. Neglecting magnetic fields of the closed currents in the fluid and noting that electro-

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Examination of an Electro Inductive Flowmeter Suitable for Rapidly Pulsating Flows

明显表示医疗结果,这些所需的现在分词使使的特别的现在分词使用的重要的重要的重要的重要的重要的重要的使用。这种重要的使用的使用的使用的使用的使用的使用的使用的使用的

static field is a potential field not only in a medium at rest but also when it moves, we get Eq.6, 7 and 8, where λ is the specific conductivity of the fluid. Since div JPR = 0, Eq.9 follows. Thus the problem of determining the potential on the electrodes reduces to that of solving two-dimensional equation of Poisson with the following boundary conditions: 1) on the inner surfaces of the non-conducting walls λCT = 0, hence Eq.10 follows; 2) potential φ is continuous everywhere and equals zero at infinity. Solving Eq.8 by the method of Ref.8 gives Eq.11 and 12. Multiplying Eq.9 by 2/b cos kny/b and integrating gives Eq.13 and 14 which through Eq.15 and 16 leads to Eq.17, 18 and 19. Since w(x,y) depends on the character of the flow (i.e. on Reynolds number) and is still unknown, the theorem of mean value is applied in order to determine the potential on the electrodes. Further, assuming that Ψ1 and Ψ2 do not change in sign, Eq.20-24 follow, where φ = wab is the volume flow.

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Examination of an Electro Inductive Flowmeter Suitable for Rapidly Pulsating Flows

An analysis of these results suggests: 1) when measuring the mean flow at any section of the duct, the actual velocity distribution does not affect the relationship between the potential of the electrodes and the mass flow of the fluid, i.e. Eq.24 is valid both in the laminar and turbulent flows; 2) electromotive force, induced in the fluid, is directly proportional to the mass flow. Fig.2 shows some experimental results confirming the above findings. However, the high quality of the flowmeter, as indicated by the theoretical analysis, was not fully realized on the models of the apparatus. This is accounted for by the electro-chemical phenomena on the electrodes of the pick-up. The complicated chemical phenomena at the surface of contact of a metal and electrolyte can be roughly separated into two classes, those present when there is a current in the electrolyte and those when there is no current in it. When no current flows in the electrolyte there is a boundary layer formed on the electrodes which consists

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Examination of an Electro Inductive Flowmeter Suitable for Rapidly Pulsating Flows

of a double layer of charged ions, which is somewhat similar to a flat condenser with two facings. This ionized layer, whose potential of is shown in Fig. 3, may be subdivided into two parts: the first in which the ions are tightly held at the surface and the second (diffused layer) in which the ions are at a distance of (equal to ion radius) from the surface. Mean value of the potential (\*) on the border for fairly diluted electrolytes depends on  $\eta$  is the viscosity of the fluid,  $\epsilon$  - dielectric constant and E - electric field intensity. To obtain a stable dynamic state and stable value of oF, it is necessary to have one of the following electrochemical compounds: 6d/CdSo4; Ag/AgNO3; Zu/ZuSO4; Ag/AgClTB/KCl. Fig. 4 shows the electrolitic cell of the pick-up of such a flowmeter, in which the electrodes are not subject to polarization. If an electric cell M/M++X/M be joined into an external electric circuit then, with induced e.m.f. in the fluid, there will be a current produced in

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**APPROVED FOR RELEASE: 07/19/2001** 

Examination of an Electro Inductive Flowmeter Suitable for Rapidly Pulsating Flows

the circuit of the pick-up. When this current reaches a fairly large value (more than 10-6a) electrodynamic equilibrium at the contact between the metal and solution is disturbed: on one electrode the discharge of ions proceeds faster than the release of molecules from the metal into the solution; on the other electrode the conditions are reversed. As a result of this on the border of the two phases there appears electromotive forces of the opposite sense to the applied e.m.f. but if the current is small (less than 10-8a), the cells remain practically unpolarized; neither is there any any chemical polarization. Fig.5 and 6 show some experimental data obtained with small currents. Based on this evidence it may be said that it is possible to produce a flowmeter capable of measuring the mass flow of an electroconductive fluid pulsating with a frequency of several thousand oscillations per second. Such a flowmeter should consist of a pick-up (transistor) of special construction with a constant magnetic

Card 8/9

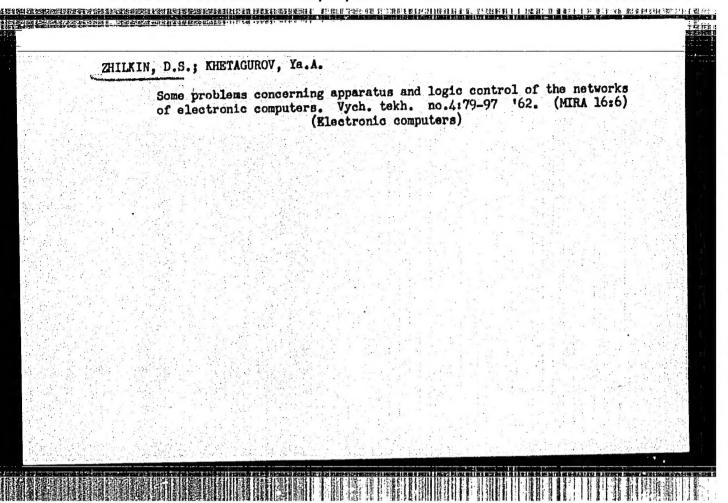
Examination of an Electro Inductive Flowmater Suitable for Rapidly Pulsating Flows

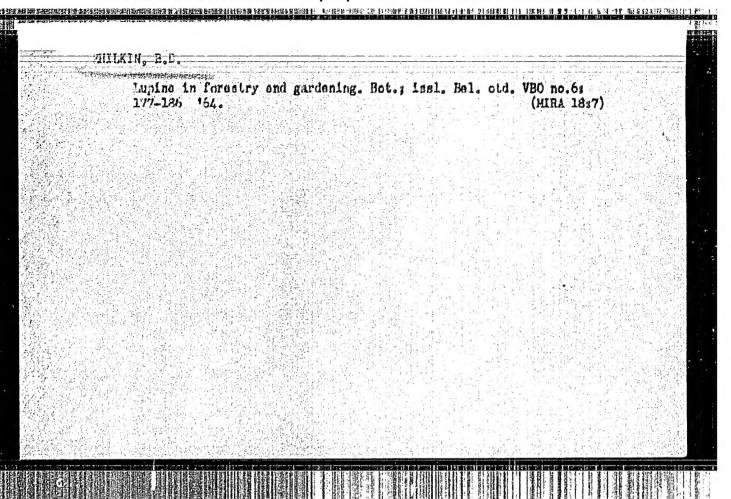
excitation, an amplifier of constant and variable signals and a recording instrument. There are 6 figures and 10 references of which 3 are Soviet, 6 English and 1 French.

ASSOCIATION: Moskovskiy Aviatsionnyy Institut, Kafedra AD-2 (Moscow Institute of Aeronautics, Chair AD-2)

SUBMITTED: 4th March 1958.

Card 9/9





ZHILKIN, I., arkhitektor; GIRSHTEL', O., inzh.

Industriel wastes for finishing wall panels. Zhil. stroi. no.1:
(20-22 '62.

(Finishes and finishing)
(Iagansk Economic Region—Walls)

S/076/60/034/009/028/041XX B020/B056

AUTHORS:

Rabinovich, I. B., Murzin, V. I., Zhilkin, L. S.

TITLE:

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The Isotopic Effect in the Viscosity of Deutero-glycerin

and Ethylene Deutero-glycol

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 9,

pp. 1973 - 1975

TEXT: The authors wanted to district the relation between the isotopic difference in the viscosity and the association by means of hydrogen binding, and for this purpose they investigated the effect produced by the substitution of hydrogen by deuterium in the hydroxyl groups of the substitution of hydrogen by deuterium in the hydroxyl groups of glycerin and ethylene glycol upon the viscosity of these compounds. Deuterium was introduced into the alcohols by repeated exchange with heavy water under vacuum evaporation. The deuterium content, the density heavy water under vacuum evaporation. The deuterium content, the density  $(2^{20})$ , and the refractive index  $(n_D^{20})$  of the isotope analogues are given in Table 1. The viscosity was determined with an accuracy of about 0.2 %. In Table 1. The viscosity was determined with an accuracy of about 0.2 %. As may be seen from Table 2, the isotopic effect in the viscosity for Card 1/2